



## FumeGard NU-156

### Vertical Laminar Airflow Fume Hood for High Acid and Trace Metal Analysis Use

Constructed almost entirely of polypropylene, this fume hood contains the HEPEX™ Zero Leak Airflow System, available only from NuAire. The HEPEX™ system prevents uneven particulate loading by eliminating direct blasts to the HEPA filter, dispensing air over 100% of the surface. The system surrounds positive pressure airflow chambers and ducts with negative air pressure relative to the laboratory. This limits the possibility of leaks and guards against filter failure.

The FumeGard NU-156 is designed and tested to meet product and personnel containment performance as established by National Sanitation Foundation Standard No. 49 for Biological Safety Cabinets. These cabinets meet or exceed Federal Standard 209e, Class 10 air quality conditions, and have been independently tested for containment properties in accordance to ASHRAE Standard 110-1995 for Fume Hoods.

## Standard Features

- HEPEX™ Zero Leak Air Flow System
- Large Separator-Less (Aluminum Free) HEPA Filters, 99.99% Efficient on 0.3 Micron Particles
- PVC Diffuser over Supply HEPA
- 1/2" (13 mm) Stress Relieved All Seam Welded Polypropylene Work Zone
- Vented and Plumbed Spill Trough Plenum under Work Surface
- 1/4" (6 mm) Lexan® with Margard® View Screen with 10" (254 mm) Access Opening at 105 LFPM
- View Screen Slides 19 1/2" (495 mm) Maximum Opening to Fully Closing
- Removable Work Surface/Inlet Grill
- Front Filter Removal without Removing View Screen
- Polypropylene Blower/HEPA Filter Module
- Polypropylene Enclosed Fluorescent Lighting with Lexan Cover: 100 Foot-Candles (1076 LUX) with Low-Heat Fluorescent Ballast
- Modular Electrical Component Construction Sealed in Polypropylene Case with Access Panel
- Solid State Motor Voltage Regulator

## Optional Features

- ULPA Filters: 99.999% Efficient on 0.12 Micron Particles
- Remote Controlled Service Valves for Air, Vacuum, and/or N2 Available in PVC, PVDF, Teflon® or Polypropylene\*
- Magnehelic Gauge to Monitor Supply Plenum Encased in Polypropylene Housing with Lexan® Window
- Additional Duplex Outlet(s) with PVC Covers
- Cascade Rinse Tanks with Nitrogen Purge
- Digital Manometer/Alarm
- Exhaust Interlocks for Building Controls
- D.I. or N2 Teflon® Spray Guns
- Teflon®, PVDF, or Polypropylene Dip Tanks with or without Drains
- Polypropylene or PVDF sinks with Hot/Cold or D.I. Water Faucets
- Teflon® Liquid/Air Aspirators to Syphon Chemicals
- Fully Perforated Work Surface (10% Open)
- Polypropylene Rectangle-to-Round Exhaust Transitions
- Custom Polypropylene Sinks with Chemically Resistant "P"-Trap
- Ground Fault Circuit Interrupter for Duplex Outlet
- Vented Base Support Cabinet

## NU-156 Specifications

Overall Dimensions	4 ft Models	5 ft Models	6 ft Models	8 ft Models
Width	48 1/2" (1232 mm)	60 1/2" (1537 mm)	72 1/2" (1842 mm)	96 1/2" (2451 mm)
Depth: 24" Work Surface	36" (914 mm)	36" (914 mm)	36" (914 mm)	36" (914 mm)
Depth: 30" Work Surface (includes light and duct)	42" (1067 mm)	42" (1067 mm)	42" (1067 mm)	42" (1067 mm)
Height (includes pre-filter grill)	67 5/8" (1718 mm)	67 5/8" (1718 mm)	67 5/8" (1718 mm)	67 5/8" (1718 mm)
<b>Work Area Dimensions</b>				
Width	38 1/2" (978 mm)	50 1/2" (1283 mm)	62 1/2" (1588 mm)	86 1/2" (2197 mm)
Depth: 24" Work Surface	25 1/2" (648 mm)	25 1/2" (648 mm)	25 1/2" (648 mm)	25 1/2" (648 mm)
Depth: 30" Work Surface	31 1/2" (800 mm)	31 1/2" (800 mm)	31 1/2" (800 mm)	31 1/2" (800 mm)
Height	29" (737 mm)	29" (737 mm)	29" (737 mm)	29" (737 mm)
<b>Shipping Weight**</b>				
24" Work Surface	705 lbs (320 kg)	730 lbs (332 kg)	825 lbs (375 kg)	1265 lbs (575 kg)
30" Work Surface	756 lbs (344 kg)	839 lbs (381 kg)	900 lbs (409 kg)	1325 lbs (602 kg)
<b>Exhaust Requirements***</b>				
24" Work Surface	759 cFM (1290 m/hr)	995 cFM (1690 m/hr)	1232 cFM (2093 m/hr)	1705 cFM (2897 m/hr)
30" Work Surface	863 cFM (1466 m/hr)	1133 cFM (1925 m/hr)	1402 cFM (2382 m/hr)	1941 cFM (3298 m/hr)
<b>Certification Value</b>				
24" Work Surface	690 cFM (1171 m/hr)	905 cFM (1538 m/hr)	1120 cFM (1903 m/hr)	1550 cFM (2633 m/hr)
30" Work Surface	785 cFM (1334 m/hr)	1030 cFM (1753 m/hr)	1275 cFM (2168 m/hr)	1765 cFM (3000 m/hr)
<b>Exhaust Static</b>				
	0.8" (20 mm) w.g.	0.8" (20 mm) w.g.	0.8" (20 mm) w.g.	1.5" (38 mm) w.g.
<b>Exhaust Duct Opening</b>				
	4" x 24" (102 x 610 mm)	4" x 30" (102 x 762 mm)	4" x 30" (102 x 762 mm)	4" x 36" (102 x 914 mm)
<b>Airflow Characteristics</b>				
Down Flow Velocity: 60 LFPM (0.30 m/s) Inflow Velocity: 105 LFPM (0.53 m/s) @ 10" Access Opening				
<b>Electrical Requirements****</b>				
115 Volts AC, 60 Hz – or – 230 50 Hz Blower/Lights (Amps): 6 (8 for 8 ft Model) – or – (3 @ 230 VAC) Outlet 115 V (Amps): 15***** – or – (10 @ 230 VAC)				

\* Metallic pipe, required for natural gas, or any other metallic surface, is coated with a 20-mil thickness of thermoplastic powder PolyArmor.®

\*\* Includes fume hood base cabinet. Leg levelers, handles, hinges and screws are made of polypropylene. Solid doors have adjustable air vents and are secured with a concealed magnetic latch.

\*\*\* Concurrent Balance Value shall be used for design and balance exhaust/supply HVAC requirements.

\*\*\*\* Metal or PVC junction box is provided for electrical connections.

\*\*\*\*\* If more amperage is required, separate circuits can be provided at additional cost.